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United States Patent [19][11] **Patent Number:** **5,138,304****Bronson**[45] **Date of Patent:** **Aug. 11, 1992**[54] **PROJECTED IMAGE LIGHT PEN**[75] **Inventor:** **Barry Bronson**, Saratoga, Calif.[73] **Assignee:** **Hewlett-Packard Company**, Palo Alto, Calif.[21] **Appl. No.:** **561,834**[22] **Filed:** **Aug. 2, 1990**[51] **Int. Cl.⁵** **G09G 3/02**[52] **U.S. Cl.** **340/707; 340/709; 358/93**[58] **Field of Search** **340/705, 706, 707, 708, 340/709; 178/18, 19; 358/22, 183, 231**[56] **References Cited****U.S. PATENT DOCUMENTS**

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Primary Examiner—Alvin E. Oberley*Assistant Examiner*—Jick Chin[57] **ABSTRACT**

A technique for interaction with a projected video image with a light pen and/or target marks on the projection screen in which light reflected from the projected image is compared with the video image to detect the position of a spot positioned on the projected image by the light pen and/or the reflection of the target marks. The computer used to generate the video image is then caused to position a cursor in the video image in response to the spot position and/or otherwise modify the generated and/or projected video image.

14 Claims, 1 Drawing Sheet